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Function key routines I was innerted to send Poler - BRDCC artiff in the coast I have I PURDASSO è Dragen Si Twist or stick nerator Scramble to 00580 I HARF had several innuries an

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Letters

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Dragonsoft

Programs Flary, Microdell, 41 Trans Road, 51, Antell, Cervinal PLS SLE, Prices (St. 8) ALTHOUGH sprins are not offeed as one of the Massach of the Diagon, games writers are managing to produce fleen to good effect in some of the recent games (in his part and in any supplementation), and they first oppose in the 56th trans.



The there is availed control in a clause filled sky, for former reasons, somewhere in South America. You control a life, hererica. You control a life, plane in the centre of the somewher does not change its position, marrier strings to so a different direction as you mave the joystick around. The background moves in the opposite direction to the plane across the sorrees and the across the sorrees and the

Hunchback
Program: The Balls, Blady
Computer Glames, 30 Crossways, Lufstewerth Read,
Illians, Lucotion, Redec (1.0)
If SEDMS that the Intest
gunes to get the "Specie level."

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dream of builets of direction in whe is pointing. It is not shape that is un-shape that is your score. It several parachage that is visually across toot is visually it would look of

ear your score. The or several parachula oil gerilly across if effect is visually to and would look each the Dragon produce possure, but as if it, up best in black as you can cape with it so that cornes through too long at the flut passing by, you ma yours bleet the dust and yours bleet the dust of save about it it sooks good by and yours bleet the dust to save about it it sooks good by and passing and passing and passing and passing p

Care under declaration in the same somewhat and same and somewhat and same and don't have. You amphing fall come coine disappeared with a basing, my orbit continued to rise, and I amond given by borriscon. Their suddenly a magnetic mine appeared from nowhere and between the control as bowards. They suddenly as magnetic mine appeared from nowhere and between the same premaring place in sections. as bowards if you failing your before you may every like game, but I flowed it a tillier or game, but I flowed it a tillier or

I found it a little ide. John Scri

of touch sent Quasiay across the scree officer aread feature floack are here; an ls, and so on. Then

ther usual feature fleets are frere at both deep free to be and so on. There reers is get through get to the end, so it shall happens in this receasily. I prefer Ocon of "Hunchbo gram: Perious Pit, Binby spacer Games, 10 Crossis House, Lutterworth d, Binby, Leicester, Price: 8 BLOUGHT is an arcade-

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Programs: Mazerace and
Spellow, P.J. Paul, The Fire

OTH of those program een devised to end ren (sever- to 12-yo coording to the institall firmly into the "Educ type" of program packa The paskaging in this is an ordinary casset with a bjewelliber into sheet. The indirection sheet be included whether the program are of easy-to-use; however, does are to use the pro an adult would probable Spellber is the nester of









E all this seems a little

Program: Programmers Util tion Morroday, 41 Trust

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A. TAPE STREET OF STREET AND STREET, and SEC.



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Blowing on an EPROM Kalls and Steven Brain review on EPPOM programmer

Supply, Company, and in this issue any material to See a look of a new EPYCER populariset from the sense source. The populariset from the information when the prever in removed, and a black energy EPYCER has all of its olds set to logical 11. A new EPYCER is industry in the white, and it a under EPYCER can be applied to the seatment with ultian visite light in a special craping. Our Time about programming arranging out. The about programming

The province of side in variation, a second or ordering have assessed in construction of the let, and a number of the nost seeked seasons of the let, including condition conditions and literalized him has perfect conditions and literalized him has perfect the let the let are the let the let are literal to the let and the let are let one commended. The power sough literalized him has let Original bits, so that no each mail condicion are let the let are let one and let one and let one and let one let one and let one and let one The resonance of the ferties cost production is a versible mission which as all is was de-Accordantly to the Life Lab Conference of the C

Astomatic configuration

Us to 12 different types of single risk
EPTICM are supported figure 3), with the

e essential differ and an EPROM is

a "one-time" (device whose contents can mere the changed. In addition, preparing the "mask" for a FDM is a costly proce durs, and they are therefore early seek, calcular for long rains of unchanging traditions. In lad a peak hoster early home staffers, and a peak hoster early home EPPCCM. All their spek the programming unit look families as if uses essentially the same mattern ASS cantidose as the REGOZ and mattern ASS cantidose as the REGOZ and

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land 2014 or 27126 devices instead of the opinished 2764A or 27128A chips pation sile is liever programming voltage, as eaching the small price on this particular yiel of only before programming is easee at.

The target CPROM type own be Castingal checking sary to apply a voltage for up to 50

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by CHRIS ANDREW

Figure 6: Example error messag

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Spanish manufactures of the Dropon at the 68th show held at the Royal Portreduced Halls in London.

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Reach for recursion Paul Grieves introduces i

Recursion is a very useful and elegant

In order to understand recursion you

58 FRINT N'FACTORIAL

people TREESE B

Function process

However, recursion takes the idea that

20 DIM RS: 30), R(30), B(30) 38 INPUT "PLEASE ENTER YOUR MORD ": L&

20 FRINT "THERE ARE "V" POSSTRIES 180 IF NO(P-1) THEN P+P#2 (DITO 188

1000 IF 1ON THEN 1050 1010 HIDECOS.N. 1 00HIDECLS.N. 1

The program can be speeded up by

The final listing (program 70 in our

1100 IF JOH THEN GOSUE 4000 GOTO 1100 2000 'SMP LS (1.1)

3000 N-X+1 4000 7000 1, 1,15

1070 HIDS: 508-1-1 >HIDS(LS-[-1)

Each permutation is given, rather than a

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DRAGO

10 DIM X (30) , Y (30)

40 X(N)=INT(122+(95+008(P/(180/3,1 50 YON - INT (96-195+8IN(P/(180/3,14

70 PMODE4, LISCREENI, DIPCLS 80 IF FC2 THEN POLS 90 C=C+1; IF C=10 THEN 150

120 B-D+1: IF D-19 THEN D-1 130 LINE(X(A), Y(A)) - (X(B), Y(B)), PB

135 PLAY*T10005804803802C* 140 BOTD110

190 FOR 1st TO 1018 AV*T10002CREES 200 REM +70+ CHANGE PRODE TO 3 210 RFM +80+ ADD E AFTER POLS

Program notes

2 *** SOUND-TO-LIGHT ** 3 . ** 4 * ** ROBERT STRANGE ** 5 ' ** (C) AUG 1984 ** 30 CLEAR200 LIPPET ALZODO 50 DATA BD.OD, 2D, 1F, 1, 5F, 86, FF, 20,

,7E,8C,37,*

70 DATA RD.88,20,7E,FC,8C.6.0,26.3 .8E,4,0,86,80,E7,80,4A,26,FB,9F,FC BO DEF USRZ=A: GDSUB230 90 DATA BD. 89.20.9E.FC.30.89.FF.O. BC.4.0.24.3.9E.5.80.8A.80.F7.80.40

















Meil Order Sales from Min

34 Dragen User January 1990

150 IF CHO THEN THIRD. I 170 IF T>30000 THEN T=30000 100 IF ABS (A-E) (20 THEN 130 190 D-VAL(MIDE("128,191,175,239,22 3,143,255,159,207*,0*4+1,3); 200 IF A/E THEN D-USROZ (D) ELSE D-

USB014D 730 BEAD DELIF DECHE! THEN POKE A 300 ' TO AN INTEGER IN THE NO D-REGISTER.... JMP #9037 CONVERTS THE 340 ' WALLE IN THE D-REGISTER 350 TD & BOSTC VORTABLE AND

360 - RETURNS TO BASIC.....

NOTES ON MICHINE CODE

20 DIMCK (32, 24) 30 REM DOWNHILL SKI-ING

70 PRINT 8 135, "setting up screen" 90 PRINT TAR(10); "PLEASE WAIT"

140 DATA 1,1,1,1,1,1,1,1,1,1,2,1,1,1 150 DATA 1,2,1,1,1,1,1,1,2,3,2,1,1

160 DATA 1.3.2.1.1.1.2.2.3.3.3.3.2.2

170 DATA 1.3.3.2.2.2.3.3.3.3.3.3.3.3.3

190 DATA 1,2,3,3,3,3,3,3,2,1,2,3,3 200 DATA 1,1,2,3,3,3,2,2,1,1,1,2,2 210 DATA 1,1,1,2,2,2,1,1,1,1,1,1,1,1

30 DATA 2,3,3,2,1,2,3,3,3,2,1,2,3

240 DATA 2,3,3,3,2,3,3,3,3,3,3,2,3,3 250 DATA 2.3.3.3.3.3.3.3.3.3.3.3.3.3 260 DATA 2,3,3,3,3,3,2,2,2,3,3,3,2,2 270 DATA 2,3,3,3,3,2,1,1,1,2,3,2,1

Continued on page 37

INTERPORTAGE

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All the fun of the TV game adapt players. Custamy 500 questions.



750 PMODE 4.1+SCREEN 1.1+PCOPY S.T. 340 DATA 1,1,1,1,1,1,2,1,1,2,3,3,3 BOO IF AS-CHRE(8) THEN SPV--1: YPV-350 DATA 1,1,1,1,1,1,1,1,1,1,1,2,3,2 BIO IF AS-CHRS(9) THEN EMV-1: YEAR-O 820 IF 46+CHR6(94) THEN YMV--1:300 360 DATA 1,1,1,1,1,1,1,1,1,1,1,1,2,3 830 IF AS-CHRS (10) THEN YMV-11379/-840 X=X+129V 370 DATA 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 BEG YOY+YEV 860 IF X=32 AND YO16 THEN GOTO 103 380 REM STORE ALL DATA IN A 32+ 24 ARRAY 890 PDKE 1536+(Y+256)+(8+32)+X,CHR 900 PBKE 1536+(YY*256)+(B*32)+XX,2 460 DATA 239,231,199,195,131,0,239 940 FOR 8=0 TO 7 950 PDKE 1536+(YY+256)+(R+32)+XX.7 470 DATA 143,179,188,179,143,159,1 940 NEXT B 480 DATA 255,255,255,255,255,255,255,2 980 NEXT LIFE 490 DATA 239,131,69,69,215,187,187 .57 500 FDR CH=1 TO 4 1010 PRINT # 139, "game"+STRINGS(2, 530 CH08 (CH. 8) =0 1020 FOR A=1 TO 2000; NEXT A: GOTO 6 540 NEXT B,CH 10TO FOR \$10 TO 71PONE 153A+(X-1)+ 560 REM SET UP SCREEN IN PHODE4 (Y+256) + (B+32) , 255; NEXT; FOR 6=1 TO 570 PHODE 4, LIPCLES 1050 PRINTIPRINT TORUS - "wow howe-620 FDR 8=0 TO 7 1070 PRINTSYCUR TIME 1951 THE SECON 630 PBKE 1536+(Y*256)+(B*32)+K,D4A 640 NEXT B 1090 PRINT"FASTEST TIME"; HT; "SECON A50 NEXT X.Y DS. 660 PCOPY 5 TO R 1100 FOR A=1 TO SOCOLNEST A

ABO CLS:PRINT:PRINT:PRESS spacebar

700 PRINT:PRINT:PRINT TAB(10); "good d luck"; 710 FOR A=1 TO 3:PLAY*03725556EDEED

CEDOFEDFEDFEDBAGBA*: NEXT A 720 REM****BME**** 730 TIMER**0

740 FOR LIFE-4 TO 1 STEP-1

290 DATA 1,2,3,3,3,2,1,2,2,1,1,1,1

300 DATA 1,2,3,3,3,3,2,3,3,2,1,1,1

310 DATA 1,1,2,3,3,3,3,3,3,3,3,2,1,2

320 DATA 1.1.1.2.2.3.3.3.3.3.3.3.2.3









of the hill!







1140 PRINT @ 207, "by"; 1150 PRINT @ 265, "michael"+CHR#(12 1160 SCREEN O.1 1190 PRINT TAB(7); STRINGS(18,"=") 1200 PRINT TAB(7); "WELCOME TO MRI 1270 PRINTIPRINTS THE IDEA OF 1230 PRINT-PRINT TANCEL "SULPER FO

D YOU HAVE TOKEEP BETWEEN THE FLAG 1250 PRINT # 456, "press spacebar"s

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